

Form PTO-1449		
ATTY DOCKET NO.: 96-00	SERIAL NO.: 10/068,557	FILING DATE: February 5, 2002
APPLICANT: Wand et al.		GROUP: 1756

U.S. PATENT DOCUMENTS

Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>W</i>	1	6,413,448	7/2/02	Wand et al.	252	299.63	
	2	6,139,771	10/31/00	Walba et al.	252	299-01	
	3	6,106,908	08/22/00	Duffy et al.	428	1.1	
	4	6,084,649	07/04/00	Amano et al.	349	96	
	5	6,057,007	05/02/00	Amano et al.	428	1	
	6	6,057,006	05/02/00	Kirsch et al.	428	1	
	7	6,051,639	04/18/00	Mehl et al.	524	205	
	8	6,045,720	04/04/00	Shundo et al.	252	299.61	
	9	6,030,547	02/29/00	Hasegawa et al.	252	299.61	
	10	6,019,911	02/01/00	Hirano et al.	252	299.62	
	11	6,018,070	01/25/00	Ito et al.	560	76	
	12	6,007,737	12/28/99	Nishiyama et al.	252	299.01	
	13	6,002,042	12/14/99	Mine et al.	560	66	
	14	6,001,278	12/14/99	Matsumoto et al.	252	299.65	
	15	5,985,172	11/16/99	Motoyama et al.	252	299.64	
	16	5,980,780	11/09/99	Motoyama et al.	252	299.64	
	17	5,976,409	11/02/99	Mineta et al.	252	299.65	
	18	5,972,243	10/26/99	Mine et al.	252	299.65	
	19	5,972,241	10/26/99	Johnson et al.	252	299.61	
	20	5,968,413	10/19/99	Mine et al.	252	299.65	
	21	5,951,914	09/14/99	Matsumoto et al.	252	299.67	
<i>W</i>	22	5,949,391	09/07/99	Saishu et al.	345	50	

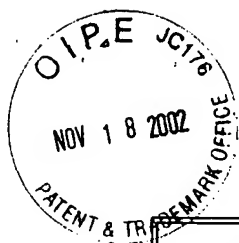
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23	5,943,112	08/24/99	Mochizuki et al.	349	173	
24	5,942,155	08/24/99	Coles et al.	252	299.64	
25	5,938,973	08/17/99	Motoyama et al.	252	299.65	
26	5,936,689	08/10/99	Saishu et al.	349	123	
27	5,932,136	8/3/99	Terada et al.	252	299-01	
28	5,928,562	07/27/99	Kistner et al.	252	299.6	
29	5,922,242	07/13/99	Saishu et al.	252	299.62	
30	5,888,420	03/30/99	Sakai et al.	252	299.01	
31	5,866,036	02/02/99	Wand et al.	252	299.6	
32	5,861,109	01/19/99	Goodby et al.	252	299.65	
33	5,861,108	01/19/99	Ishida et al.	252	299.62	
34	5,858,273	01/12/99	Asaoka et al.	252	299.4	
35	5,856,815	01/05/99	Mochizuki et al.	345	97	
36	5,855,813	01/05/99	Coles et al.	252	299.5	
37	5,855,812	01/05/99	Radcliffe et al.	252	299.01	
38	5,827,448	10/27/98	Konuma et al.	252	299.61	
39	5,808,800	09/15/98	Handschy et al.	359	630	
40	5,770,108	06/23/98	Totani et al.	252	299.61	
41	5,753,139	05/19/98	Wand et al.	252	299.01	
42	5,750,214	05/12/98	Ito et al.	428	1	
43	5,748,164	05/05/98	Handschy et al.	345	89	
44	5,744,060	04/28/98	Tarumi, et al.	252	299.63	
45	5,739,885	4/14/98	Mochizuki et al.	349	135	
46	5,728,864	03/17/98	Motoyama et al.	560	59	

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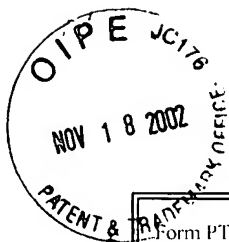


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67	47	5,723,069	03/03/98	Mineta et al.	252	299.67	
	48	5,719,653	02/17/98	Minato et al.	349	156	
	49	5,702,637	12/30/97	Johnson et al.	252	299.61	
	50	5,695,683	12/09/97	Takeichi et al.	252	299.61	
	51	5,660,762	08/26/97	Ito et al.	252	299.67	
	52	5,658,493	08/19/97	Walba et al.	252	299.01	
	53	5,658,491	08/19/97	Kistner et al.	252	299.01	
	54	5,637,256	06/10/97	Walba et al.	252	299.66	
	55	5,629,428	03/13/97	Schlosser et al.	546	303	
	56	5,626,792	05/06/97	Wand et al.	252	299.01	
	57	5,596,434	01/21/97	Walba et al.	349	123	
	58	5,595,682	01/21/97	Goodby et al.	252	299.01	
	59	5,585,036	12/17/96	Wand et al.	252	299.01	
	60	5,583,682	12/10/96	Kitayama et al.	349	172	
	61	5,568,299	10/22/96	Yoshihara et al.	359	100	
	62	5,547,604	08/20/96	Coles et al.	252	299.01	
	63	5,543,078	08/06/96	Walba et al.	252	299.65	
	64	5,539,555	07/23/96	Wand et al.	359	100	
	65	5,534,190	07/09/96	Johno et al.	252	299.65	
	66	5,529,718	06/25/96	Hornung et al.	252	299.61	
	67	5,498,368	03/12/96	Coles	252	294.67	
	68	5,482,650	01/09/96	Janulis et al.	252	299.01	
	69	5,474,705	12/12/95	Janulis et al.	252	299.01	
	70	5,457,235	10/10/95	Wand et al.	568	65	

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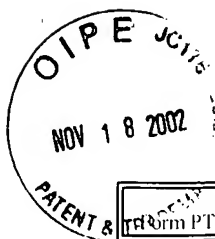
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<i>mc</i>	71	5,455,697	10/03/95	Coles et al.	359	103	
	72	5,453,218	09/26/95	Wand et al.	252	299.01	
	73	5,445,763	08/29/95	Schlosser et al.	252	299.61	
	74	5,437,812	08/01/95	Janulis et al.	252	299.01	
	75	5,427,829	6/27/95	Mochizuki et al.	428	1	
	76	5,422,037	06/06/95	Wand et al.	252	299.61	
	77	5,417,883	05/23/95	Epstein et al.	252	299.01	
	78	5,399,701	03/21/95	Janulis	546	298	
	79	5,399,291	03/21/95	Janulis et al.	252	299.01	
	80	5,393,458	02/28/95	Stephen Kelly	252	299.01	
	81	5,391,319	02/21/95	Junge et al.	252	299.01	
	82	5,389,287	02/14/95	Nishiyama et al.	252	299.01	
	83	5,380,460	01/10/95	Wand et al.	252	299.6	
	84	5,378,396	01/03/95	Yui et al.	252	299.65	
	85	5,378,394	1/3/95	Dübal et al.	252	299.61	
	86	5,377,033	12/27/94	Radcliffe	359	75	
	87	5,374,375	12/20/94	Yui et al.	252	299.65	
	88	5,367,391	11/22/94	Johno et al.	359	56	
	89	5,352,379	10/04/94	Nishiyama et al.	252	299.62	
	90	5,348,685	09/20/94	Mochizuki et al.	252	299.62	
	91	5,346,647	09/13/94	Kelly et al.	252	299.63	
	92	5,346,646	09/13/94	Kawabata et al.	252	299.62	
	93	5,340,498	08/23/94	Arai et al.	252	299.65	
<i>mc</i>	94	5,340,497	08/23/94	Wächtler et al.	252	299.61	

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95	5,338,482	8/16/94	Sakaguchi et al.	252	299.61	
96	5,327,273	07/05/94	Beresnev et al.	359	104	
97	5,322,639	06/21/94	Kawabata et al.	252	299.62	
98	5,286,409	2/15/94	Dübal et al.	252	299.61	
99	5,278,680	01/11/94	Karasawa et al.	359	40	
100	5,275,757	01/04/94	Mineta et al.	252	299.61	
101	5,271,864	12/21/93	Wand et al.	252	299.61	
102	5,262,082	11/16/93	Janulis et al.	252	299.01	
103	5,254,747	10/19/93	Janulis	568	650	
104	5,250,219	11/05/93	Mori et al.	252	299.61	
105	5,190,692	03/02/93	Coates et al.	252	299.63	
106	5,180,521	01/19/93	Eidenschink et al.	252	299.61	
107	5,180,520	01/19/93	Wand et al.	252	299.61	
108	5,178,793	01/12/93	Vohra et al.	252	299.61	
109	5,178,791	01/12/93	Wand et al.	252	299.65	
110	5,169,556	12/08/92	Mochizuki et al.	252	299.62	
111	5,168,381	12/01/92	Walba	359	53	
112	5,167,855	12/01/92	Wand et al.	252	299.01	
113	5,138,010	8/11/92	Keller et al.	528	26	
114	5,130,048	07/14/92	Wand et al.	252	299	
115	5,110,497	05/05/92	Suzuki et al.	252	299	
116	5,082,589	1/21/92	Buchecker et al.	252	299.63	
117	5,082,587	01/21/92	Janulis	252	299.01	

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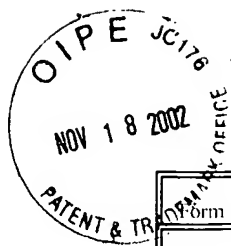
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<i>118</i>	5,071,589	12/10/91	Dübal et al.	252	299.61	
<i>119</i>	5,062,691	11/05/91	Tristani-Kendra et al.	359	56	
<i>120</i>	5,064,566	11/12/91	Hopf et al.	252	299.61	
<i>121</i>	5,061,814	10/29/91	Wand et al.	549	560	
<i>122</i>	5,055,221	10/8/91	Scheuble et al.	252	299.61	
<i>123</i>	5,051,506	09/24/91	Wand et al.	544	289	
<i>124</i>	4,952,335	08/28/90	Furukawa et al.	252	299.61	
<i>125</i>	4,943,384	07/24/90	Sucrow et al.	252	299.61	
<i>126</i>	4,886,622	12/12/89	Miyazawa et al.	252	299.61	
<i>127</i>	4,886,619	12/12/89	Janulis	252	299.1	
<i>128</i>	4,874,544	10/17/89	Yong et al.	252	299.61	
<i>129</i>	4,490,278	12/25/84	Shubert et al.	252	299.63	
<i>130</i>	4,367,924	01/11/83	Clark et al.	350	334	
<i>131</i>	4,212,762	7/15/80	Dubois et al.	252	299	

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FOREIGN PATENT DOCUMENTS

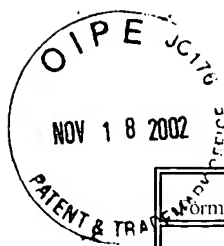
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<i>132</i>	WO 00/31210	06/02/00	PCT	C09K	19/04	
<i>133</i>	WO 99/33814	07/08/99	PCT	C07D	239/26	
<i>134</i>	WO 97/36908	10/09/97	PCT	C07F	7/21	
<i>135</i>	WO 91/00897	01/24/91	PCT	C09K	19/34	
<i>136</i>	WO 89/10356	11/2/89	PCT	C07D	213/06	
<i>137</i>	87/05015	08/27/87	WO			Abstract Only
<i>138</i>	87/05018	08/27/87	WO			Abstract Only



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139	86/06401	11/86	WO			Abstract Only
140	4315867	17.11.94	DE			Abstract Only
141	3928267	02/28/91	DE			Abstract Only
142	3906040	09/21/89	DE			Abstract Only
143	736,078 B1	06/24/98	EP	C09K	19/04	
144	579,545 B1	03/12/97	EP	G02F	1/1337	
145	425,304 B1	07/17/96	EP	G02F	1/137	
146	405,868 A2	01/02/91	EP	C09K	19/42	
147	255,236 B1	05/04/94	EP	C09K	19/20	
148	0 769 543 A1	4/23/97	EP	C09K	19/02	
149	0 401 522	12/12/90	EP			
150	0 545 409 B1	03/06/96	EP			
151	0 356 672	03/07/90	EP			
152	0 331 091	09/06/89	EP			
153	0 307 880	03/22/89	EP			Abstract Only
154	8-82778A	03/26/96	JP	G02F	1/13	Abstract Only
155	8-113784	05/1996	JP	C09K	19/54	
156	8-113784	05/1996	JP			Abstract Only
157	01053791	12/21/89	JP	C07D	319/06	Abstract Only
158	01071776	12/21/89	JP	C07D	239/26	Abstract Only
159	01041845	12/21/89	JP	C07C	43/20	Abstract Only
160	228128 A	08/15/00	JP	H01H	13/04	Abstract Only
161	1316372A2	12/21/89	JP	C07D	319/06	Abstract Only
162	1316367A2	12/21/89	JP	C07D	239/26	Abstract Only
163	1316339A2	12/21/89	JP	C07C	43/20	Abstract Only
164	1213390A2	08/28/89	JP	C09K	19/46	Abstract Only
165	63039286	08/28/89	JP	C09K	19/46	Abstract Only

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OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

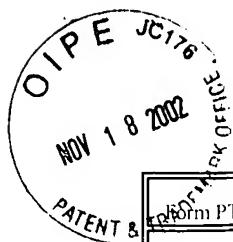
166	Arnett, K.E. et al., "Technique For Measuring Electronic-Based Electro-Optic Coefficients of Ferroelectric Liquid Crystals" (1995), <i>Mat. Res. Soc. Symp. Proc.</i> 392:135-146
167	Bezborodov, V.S. et al., "Synthesis, mesomorphic properties and potential applications of aryl esters of 4-n-alkycyclohexene-1-carboxylic acids in electrooptic displays," (1989) CAPLUS 1989:240081 (abstract only)
168	Bezborodov et al. (1989), "Synthesis, mesomorphic properties and potential applications of aryl esters of 4-n-alkycyclohexene-1-carboxylic acids in electrooptic displays," <i>Liq. Cryst.</i> 4(2):209-215
169	Blinov L.M. and Tournilhac, F., "Infra-Red Dichroism of Mesophases Formed By Polyphilic Molecules. 1. Development of the Technique and Study of Compounds With One Long Perfluorinated Tail"(1993), <i>Molecular Materials</i> 3:93-111
170	Booth, C.J. et al., "The ferro-, ferri- and antiferro-electric properties of a series of novel 2- or 3-substituted-alkyl 4-(4'-dodecyloxybiphenyl-4-carboxyloxy)-benzoate esters" (1996), <i>Liquid Crystals</i> 20(6):815-823
171	Booth, C.J. et al., "Achiral swallow-tailed materials with 'antiferroelectric-like' structure and their potential use in antiferroelectric mixtures" (1996), <i>Liquid Crystals</i> 20(4):387-392
172	CAPLUS 1998: 624749
173	CAPLUS 2001: 305417
174	Chandani, A.D.L. et al., "Novel Phases Exhibiting Tristable Switching" (July 1989), <i>Jpn. J. App. Phys.</i> 28:L1261-1264
175	Chandani, A.D.L. et al., "Antiferroelectric Chiral Smectic Phases Responsible for the Tristable Switching in MHPOBC"(July 1989), <i>Jpn. J. App. Phys.</i> 28:L1265-1268
176	Chandani, A.D.L. et al., "Tristable Switching in Surface Stabilized Ferroelectric Liquid Crystals with a Large Spontaneous Polarization" (May 1988), <i>Jpn. J. App. Phys.</i> 27(5):L729-L732
177	Clark, N.A. and Lagerwall, S.T., "Submicrosecond bistable electro-optic switching in liquid crystals"(June 1980), <i>Appl. Phys. Lett.</i> 36:899-901



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178	Clark, N.A. et al., "Electro-Optic Characteristics of de Vries Tilted and Smectic Liquid Crystals: Analog Behavior in the Smectic A* and Smectic C* Phases (2002) <i>Appl. Phys. Lett.</i> 80 :4097-99.
179	Coates, D. and Greenfield, S. (1991), "Liquid crystal compositions comprising 4-alkyl-4'-(o-fluorophenethyl)bicyclohexanes for supertwisted nematic electrooptical display devices," <i>Chem. Abstracts</i> , Vol 115, Abstract No. 115: 82430v, p. 752
180	Dawson, D.J. et al., (1987) "Cocyclotrimerization of Aryl Acetylenes: Substituent Effects on Reaction Rate" <i>Am. Chem. Soc. Sym.</i> 346 Ch 38:446-456
181	de Vries, A., "Experimental Evidence Concerning Two Different Kinds Of Smectic C To Smectic A Transitions" (1977), <i>Mol. Cryst. Liq. Cryst. (Letters)</i> 41 :27-31
182	de Vries, A., "The Implications of the Diffuse-Cone Model for Smectic A and C Phases and A-C Phase Transitions" (1979), <i>Mol. Cryst. Liq. Cryst (Letter)</i> . 49 :179-185
183	Drzewinski, W. et al. "Antiferroelectric Liquid Crystals with Fluorinated Parts of Terminal Chains" CAPLUS 1998:624787 (abstract only)
184	Edgar, K. J. and Falling, S.N., "An Efficient and Selective Method for the Preparation of Iodophenols" (1990) <i>Org. Chem.</i> 55 : 5287-5291
185	Escher, C. et al. (1991), "Liquid crystal compositions for electrooptical display devices," <i>Chem. Abstracts</i> Vol 115, Abstract No. 115:194312q, p. 775
186	Fleming, F. F. and Jiang, T., "Unsaturated Nitriles: Optimized Coupling of the Chloroprene Grignard Reagent ¹ with ω -Bromonitriles" <i>J.Org. Chem.</i> (1997) 62 :7890-7891
187	Fung, B.M. et al. (1989), "Liquid crystals containing a cyclohexene ring," <i>Mol. Cryst. Liq. Cryst. Lett.</i> 6 (6):191-196
188	Gorecka, E. et al., "Molecular Orientational Structures in Ferroelectric, Ferrielectric and Antiferroelectric Smectic Liquid Crystal Phases as Studied by Conoscope Observation" (January 1990), <i>Jap. J. Appl. Phys.</i> 29 (1):131-137
189	Hartmann, W., "Uniform SSFLC Director Pattern Switching" (1988), <i>Ferroelectrics</i> 85 :67-77
190	Heinemann, S. et al., "Synthesis and Dielectric Investigations of New Swallow-Tailed Monomers and Polymers" (1993), <i>Mol. Cryst. Liq. Cryst.</i> 237 :277-283
191	Heinemann, S. et al., "Competition between dipolar and steric interactions in swallow-tailed compounds" (1993), <i>Liquid Crystals</i> 13 (3):373-380



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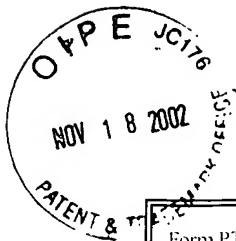
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193	Inui, S. et al., "Thresholdless antiferroelectricity in liquid crystals and its application to displays"(1996), <i>J. Mater. Chem.</i> 6 (4):671-673
194	Inukai, T. et al., "Dicyanohydroquinone cyclohexanecarboxylic acid esters," (1980) CAPLUS 1989:604304 (abstract only)
195	Johno, M. et al., "Correspondence between Smectic Layer Switching and DC Hysteresis of Apparent Tilt Angle in an Antiferroelectric Liquid Crystal Mixture" (January 1990), <i>Jap. J. Applied Phys.</i> 29 (1):L111-114
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198	Kelly, S.M. (1991), "Four unit linking groups. II. Some novel smectic C materials," <i>Liq. Cryst.</i> 10 (2):243-260
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